



## Optical Sensor Technologies in Sustaining Quality of Life

Guest Editors:

**Dr. Ahmad Fairuz Omar**

Engineering Physics Laboratory,  
School of Physics, Universiti  
Sains Malaysia, Penang, Malaysia

**Prof. Dr. M. Jamal Deen**

Department of Electrical &  
Computer Engineering, Faculty of  
Engineering, McMaster  
University, Hamilton, ON L8S 4L8,  
Canada

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### Message from the Guest Editors

**The focus of this issue is on the application of the following optical instrumentation and measurement techniques:**

- Ultraviolet, visible, and near infrared spectroscopy
- Raman spectroscopy
- Fourier transform infrared spectroscopy
- Fluorescence spectroscopy
- Colorimetry
- Optical fibre sensor technologies
- Development of specialised, simplified and lower-cost optical sensing systems

**For the following (but not limited) potential applications**

- The measurement of air pollution, such as quantification of aerosol and particulate matter
- Water quality measurement, including turbidity, total suspended solids, total dissolved solids
- Characterising light pollution and its threat to biodiversity
- The measurement of solar ultraviolet irradiance, including its implication on human health
- Monitoring of climate change
- Early detection of plant disease and physiological responses to stress
- Measurement of fruits' intrinsic qualities, such as soluble solid contents...
- Detection of food adulteration and mishandling

